

File No(s). 2008 – 138A / 176A

August 20, 2008

Bob Scotten
Program Manager
West Central Airshed Society
P.O. Box 7421
Drayton Valley, Alberta
T2W 4P3

Dear Mr. Scotten

Re: Ambient Air Monitoring Station Audits

Attached are the results from the air monitoring station audit conducted from August 7, 2008 to August 15, 2008

Audits consist of station inspections as well as performance audits of all continuous parameters. All continuous analyzers were audited according to the guidelines set forth in the Air Monitoring Directive (AMD), Audit Protocol Document as well as operational limits specified by the manufacturer to ensure quality data.

Audit non-compliance items found, manufacture specifications not met and inspection issues found at the time of the AENV audit are listed below:

Violet Grove

Audit failures:

- None at this time.

Manufacturer specifications not met:

- Ambient temperature is out by 2.2 degrees.

Inspection items:

- The station temperature is outside the +/- 1 degree tolerance used by the auditors.
- The site documentation requires updating.

Drayton Valley

Audit failures:

- PM2.5 failed measured main flow – contractor re-calibrated main flow after audit by applying a correction factor to set point of analyzer main flow.

Manufacturer specifications not met:

- Ambient temperature sensor is at the +/- tolerance used by the manufacturer.

Inspection items:

- Both PM10 and PM2.5 sampling heads are dirty.
- Both PM10 and PM2.5 bypass inline filters are dirty.
- The site documentation requires updating.

Genesee

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The manifold is not situated to prevent water from entering the analyzers.
- All three partisols are missing one of the filters on the air screens located under rain hoods.
- The site documentation requires updating.
- The tipping bucket read 1.1 mils for 10 registered tips.

Carrot Creek

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.

Hinton

Audit failures:

- None at this time.

Manufacturer specifications not met:

- Ambient temperature is out by 1.1 degree.

Inspection items:

- The site documentation requires updating.

Hightower

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.

Edson

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.

Meadows

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.

Powers

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.
- SO₂ analyzer flow sensor indicates a high alarm reading.
- PM2.5 Partisol sampler rain hood screens – right screen dirty.
- PM10 Partisol sampler rain hood screens – left screen dirty.

Wagner

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.
- SO₂ analyzer flow sensor not functioning – measured at sample inlet with Bios and determined flow is going through analyzer.

Breton

Audit failures:

- None at this time.

Manufacturer specifications not met:

- None at this time.

Inspection items:

- The site documentation requires updating.

Please note that Alberta Environment did not conduct the station audit at the Tomahawk station at this time. Environment Canada staff from Ottawa conducted analyzer audits at this location. A draft report from this station will be sent from Environment Canada within a couple of weeks.

All analyzers audited by Alberta Environment met AMD and Audit Protocol requirements. There were some met failures to be addressed. During the station audits it was noted that the ozone analyzer were 9% - 12% out on average. This indicates that the ozone transfer standard used at these locations should be re-assessed.

All stations audited require the site documentation to be updated. All sites had the plan view map missing, some stations did not have the required site pictures, one station had the wrong site pictures and some serial numbers were not correct. The AMD states that color prints showing details of the sampling inlet in relation to the station and a color print of the structure housing the instruments be shown. None of these were present. It is also a good idea that the 4 prints showing the station environs are in color. Please review the AMD appendix A-2 for details.

Please address the issues noted above by September 15th, 2008 indicating in writing what corrective have been taken. If you have any questions contact the undersigned at 780-427-7888.

Yours truly,

Jolene Scott
Monitoring Systems Auditor
Environmental Assurance

Al Clark
Monitoring Systems Auditor
Environmental Assurance

Attachment(s): None

Cc: Jim Steele District Compliance Manager
Daivid Helmer: District Approvals Manager
Marilyn Albert: Industrial Monitoring Assessment Technologist
Janine Ross: Ambient Air Support Tech
Rick Phaneuf: Approval Engineer